BRUHATH BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of Work: Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.

	007-18-000017	14th Finance P-3292			Estimate Cost:			5000000.00	
Sl No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork **excavation by manual means in ordinary soil** involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 142 / Item No. 19.1, PWD SR 2016-17**	Cum							
	For Chain Link Fenicing Park 1		1	50.00	1.00	1.00	50.00		
			1	28.00	1.00	1.00	28.00		
	Park 2		1	26.00	1.00	1.00	26.00		
			1	46.00	1.00	1.00	46.00		
			1	96.00	1.00	1.00	96.00		
			1	6.00	1.00	1.00	6.00		
	For path Way park 1		2	45.00	2.00	0.20	36.00		
			2	23.00	2.00	0.20	18.40		
	For path Way park 2		1	90.00	2.00	0.20	36.00		
			1	20.00	2.00	0.20	8.00		
			1	40.00	2.00	0.20	16.00		
			1	50.00	2.00	0.20	20.00		
			1	30.00	2.00	0.20	12.00		
			1	67.00	2.00	0.20	26.80		
							425.20	203.13	**86369.00**
	Basic Rate	82.00							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		188.08							
	Area Weightage @ 8%	15.05							
	Total	**203.13**							
	KSRB 2.8 : Providing and **Filling in foundation with granite / trap broken metal** 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. No. KBS **Page No. 5 / Item No. 2.15 of PWD SR 2016-17**	Cum							
	Soling For Chain Link Fenicing		1	50.00	0.90	0.30	13.50		

Sl No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			1	28.00	0.90	0.30	7.56		
			1	26.00	0.90	0.30	7.02		
			1	46.00	0.90	0.30	12.42		
			1	96.00	0.90	0.30	25.92		
			1	6.00	0.90	0.30	1.62		
	Basic Rate	2114.00					**68.04**	2283.12	**155343.00**
	Area Weightage @ 8%	169.12							
	Total	**2283.12**							
2	KSRB 4-1.2 : Providing and laying in position **plain cement concrete of mix 1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation** including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **(P.No. 12/I.No. 4.2 of CSR 2016-17)**	Cum							
	Bed Concrete For Chain Link Fenicing		1	50.00	0.90	0.15	6.75		
			1	28.00	0.90	0.15	3.78		
			1	26.00	0.90	0.15	3.51		
			1	46.00	0.90	0.15	6.21		
			1	96.00	0.90	0.15	12.96		
			1	6.00	0.90	0.15	0.81		
	Basic Rate	5046.00					**34.02**	5449.68	**185398.00**
	Area Weightage @ 8%	403.68							
	Total	**5449.68**							
3	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6, stone** hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 23 / Item No. 5.6, PWD SR 2016-17**	Cum							
	Foundation For Chain Link Fenicing		1	50.00	0.75	0.60	22.50		
			1	28.00	0.75	0.60	12.60		
			1	26.00	0.75	0.60	11.70		
			1	46.00	0.75	0.60	20.70		
			1	96.00	0.75	0.60	43.20		
			1	6.00	0.75	0.60	2.70		
	Basic Rate	4187.00					**113.40**	4521.96	**512790.00**
	Area Weightage @ 8%	334.96							
	Total	**4521.96**							

Sl No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 23 / Item No. 5.9, PWD SR 2016-17**	Cum							
	Basement For Chain Link Fenicing		1	50.00	0.45	0.45	10.13		
			1	28.00	0.45	0.45	5.67		
			1	26.00	0.45	0.45	5.27		
			1	46.00	0.45	0.45	9.32		
			1	96.00	0.45	0.45	19.44		
			1	6.00	0.45	0.45	1.22		
	Basic Rate	5005.00					**51.03**	5405.40	**275838.00**
	Area Weightage @ 8%	400.40							
	Total	**5405.40**							
5	KSRB 15.1.3 Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications **Page No. 113 / Item No. 15.3, PWD SR 2016-17**	Sqm							
	Pointing For Chain Link Fenicing		2	50.00		0.45	45.00		
			2	28.00		0.45	25.20		
			2	26.00		0.45	23.40		
			2	46.00		0.45	41.40		
			2	96.00		0.45	86.40		
			2	6.00		0.45	5.40		
	Basic Rate	98.00					**226.80**	105.84	**24005.00**
	Area Weightage @ 8%	7.84							
	Total	**105.84**							
6	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.6 PWD SR 2016-17**	Cum							
	Coping For Chain Link Fenicing		1	50.00	0.45	0.10	2.25		
			1	28.00	0.45	0.10	1.26		
			1	26.00	0.45	0.10	1.17		
			1	46.00	0.45	0.10	2.07		
			1	96.00	0.45	0.10	4.32		

Sl No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			1	6.00	0.45	0.10	0.27		
	Repair Work		1	44.00	0.45	0.10	1.98		
			1	35.00	0.45	0.10	1.58		
	Basic Rate	5441.00					**14.90**	5876.28	**87527.00**
	Area Weightage @ 8%	435.28							
	Total	**5876.28**							
7	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) **Page No. 262 / Item No. 37.2, PWD SR 2016-17**	m							
	For Chain Link Fenicing		21	2.40			50.40		
			12	2.40			28.80		
			11	2.40			26.40		
			20	2.40			48.00		
			40	2.40			96.00		
			9	2.40			21.60		
	Repair Work		19	2.40			45.60		
			15	2.40			36.00		
	Basic Rate	819.00					**352.80**	884.52	**312059.00**
	Area Weightage @ 8%	65.52							
	Total	**884.52**							
8	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint. **Page No. 262 / Item No. 37.4, PWD SR 2016-17**	m							
	For Chain Link Fenicing		3	50.00			150.00		
			3	28.00			84.00		
			3	26.00			78.00		
			3	46.00			138.00		
			3	96.00			288.00		
			3	6.00			18.00		
			3	44.00			132.00		
			3	35.00			105.00		

Sl No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic Rate	324.00					**993.00**	349.92	**347471.00**
	Area Weightage @ 8%	25.92							
	Total	**349.92**							
	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint **Page No. 262 / Item No. 37.3, PWD SR 2016-17**	Sqm							
	For Chain Link Fenicing		1	50.00		1.80	90.00		
			1	28.00		1.80	50.40		
			1	26.00		1.80	46.80		
			1	46.00		1.80	82.80		
			1	96.00		1.80	172.80		
			1	6.00		1.80	10.80		
			1	44.00		1.80	79.20		
			1	35.00		1.80	63.00		
	Basic Rate	659.00					**595.80**	711.72	**424043.00**
	Area Weightage @ 8%	52.72							
	Total	**711.72**							
10	Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members asshown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specifiocation. **Page. No. 43 / Item. No. 7.37 PWD SR 2016-17**	Sqm							
	Gate		2	3.50	1.80		12.60		
	Basic rate	2934.00					**12.60**	3168.72	**39926.00**
	Add 8% AW	234.72							
	Total	**3168.72**							

Sl No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
11	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete **Page No. 25 / Item No. 5.30 PWD SR 2016-17**	No							
	For path Way park 1		4	45.00			400		
				0.45					
			4	23.00			204		
				0.45					
			2	90.00			400		
				0.45					
			2	20.00			89		
				0.45					
			2	40.00			178		
				0.45					
			2	50.00			222		
				0.45					
			2	30.00			133		
				0.45					
			2	67.00			298		
				0.45					
	Basic Rate	313.00					**1924**	331.78	**638492.00**
	Area Weightage @ 6%	18.78							
	Total	**331.78**							
12	KSRRB M2100-9. Sand Filling in Foundation Trenches as per Drawing & Technical SpecificationMORTH Specification No. 304 **Item No. 27.17 Page No. 217, PWD SR 2016-17**	Cum							
	For path Way park 1		2	45.00	2.00	0.20	36.00		
			2	23.00	2.00	0.20	18.40		
	For path Way park 2		1	90.00	2.00	0.20	36.00		
			1	20.00	2.00	0.20	8.00		
			1	40.00	2.00	0.20	16.00		
			1	50.00	2.00	0.20	20.00		
			1	30.00	2.00	0.20	12.00		
			1	67.00	2.00	0.20	26.80		
	Basic Rate	2757.00					**173.20**	2922.42	**506163.00**
	Area Weightage @ 6%	165.42							
	Total	**2922.42**							

Sl No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
13	KSRB 14.6-1: Providing and laying **heavy duty cobble stones 60mm thick interlock pavers**, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS. **(P.No. 101, I.No. 14.6 of CSR 2016-17)**	Sqm							
			2	45.00	2.00		180.00		
			2	23.00	2.00		92.00		
			1	90.00	2.00		180.00		
			1	20.00	2.00		40.00		
			1	40.00	2.00		80.00		
			1	50.00	2.00		100.00		
			1	30.00	2.00		60.00		
			1	67.00	2.00		134.00		
	Basic Rate	912.00					**866.00**	966.72	**837180.00**
	Area Weightage @ 6%	54.72							
	Total	**966.72**							
14	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. **Page No. 122 / Item No. Item No. 15.80, PWD SR 2016-17**	Sqm							
	Kerb Stone Painting		4	45.00		0.35	63.00		
			4	23.00		0.35	32.20		
			2	90.00		0.35	63.00		
			2	20.00		0.35	14.00		
			2	40.00		0.35	28.00		
			2	50.00		0.35	35.00		
			2	20.00		0.35	14.00		
			2	67.00		0.35	46.90		
	Basic Rate	26.00					**296.10**	27.56	**8161.00**
	Area Weightage @ 6%	1.56							
	Total	**27.56**							

Sl No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
15	KSRB 15-19.2 : Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.**Page No. 122 / Item No. Item No. 15.81. PWD SR 2016-17**	Sqm							
			Qty Vide Item No. 14				296.10		
	Basic Rate	66.00					**296.10**	69.96	**20715.00**
	Area Weightage @ 6%	3.96							
	Total	**69.96**							
	Sub Total								**4461480.00**
	Tender Premium @ 10%								**446148.00**
	Third Party Inspection Charges @ 1%								**44615.00**
	Labour Cess @ 1%								**44615.00**
	Miscellaneous and unforeseen charges	LS							**3142.00**
								Total	**5000000.00**
Rupees Fifty Lakh(s) Only									

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 07

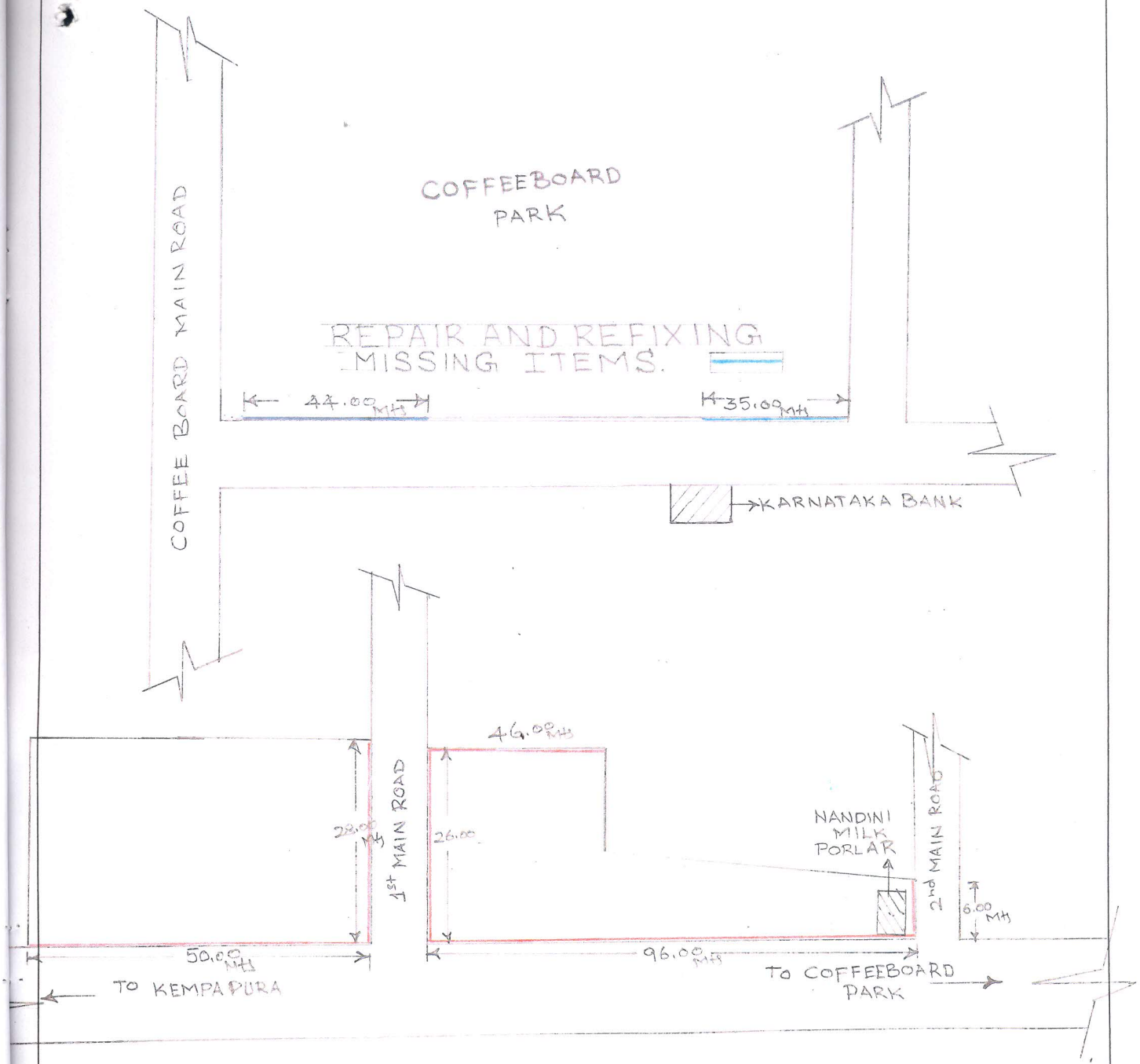
Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Kodigehalli Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ADMINISTRATIVE APPROVAL
Accorded For Rs. Fifty lakhs only
Head of A/c. P-3292
Div. Ref. No. 166/17-18 Date. 12/01/18
AE
EE(BTP) 12/1/18

Technical Sanction
Accorded For fifty lakhs only
Head of A/C. P 3292
CER NO :TS 509/17-18 Dt: 12.01.18
[TA] CE (YNK)

Name of Work: Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.



SKETCH SHOWING PROPOSED CHAIN LINK FENCING. =

Assistant Engineer
Ward No. 07

Assistant Executive Engineer
Kodigehalli Sub Division